

FIG. 1

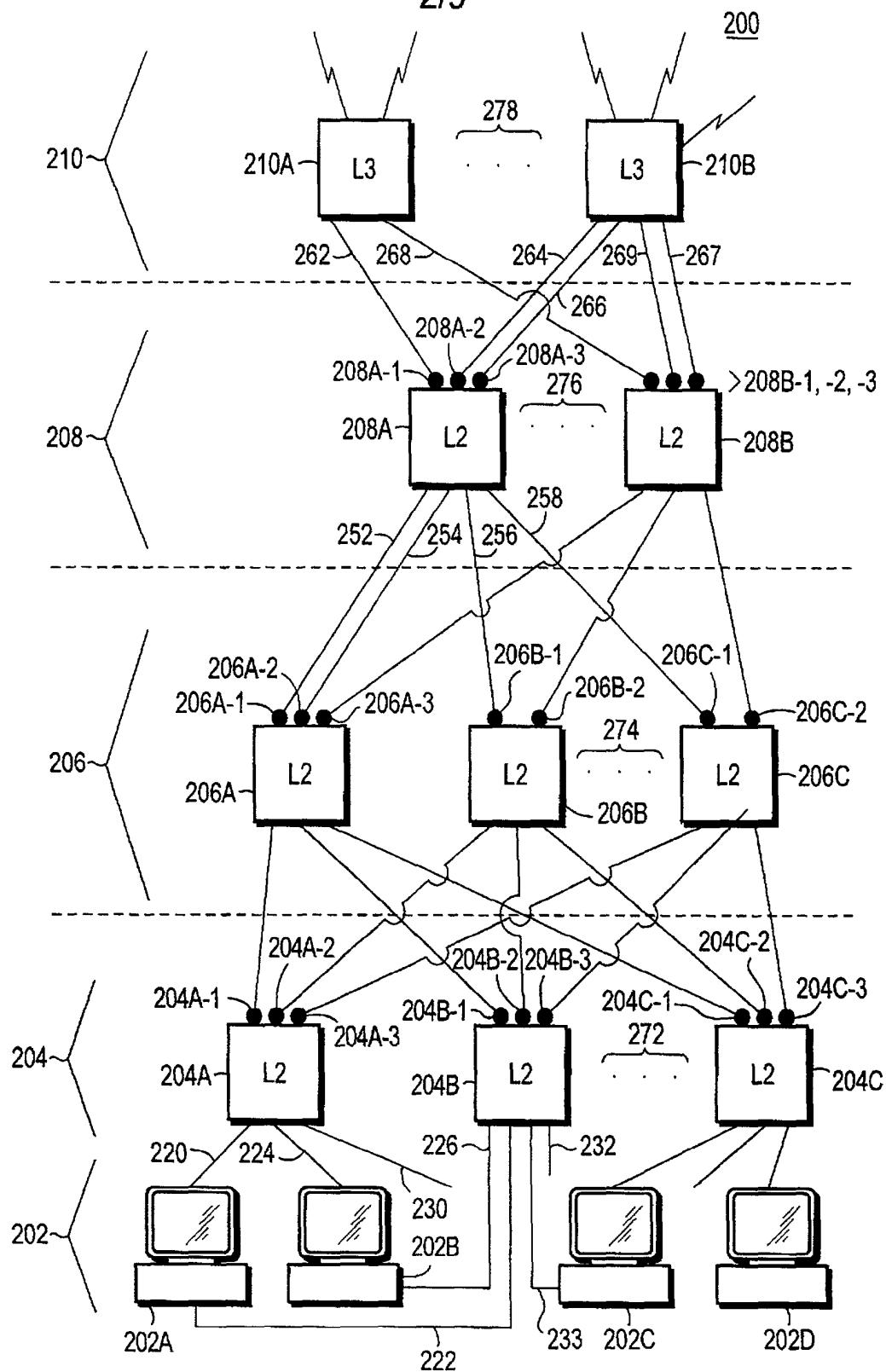
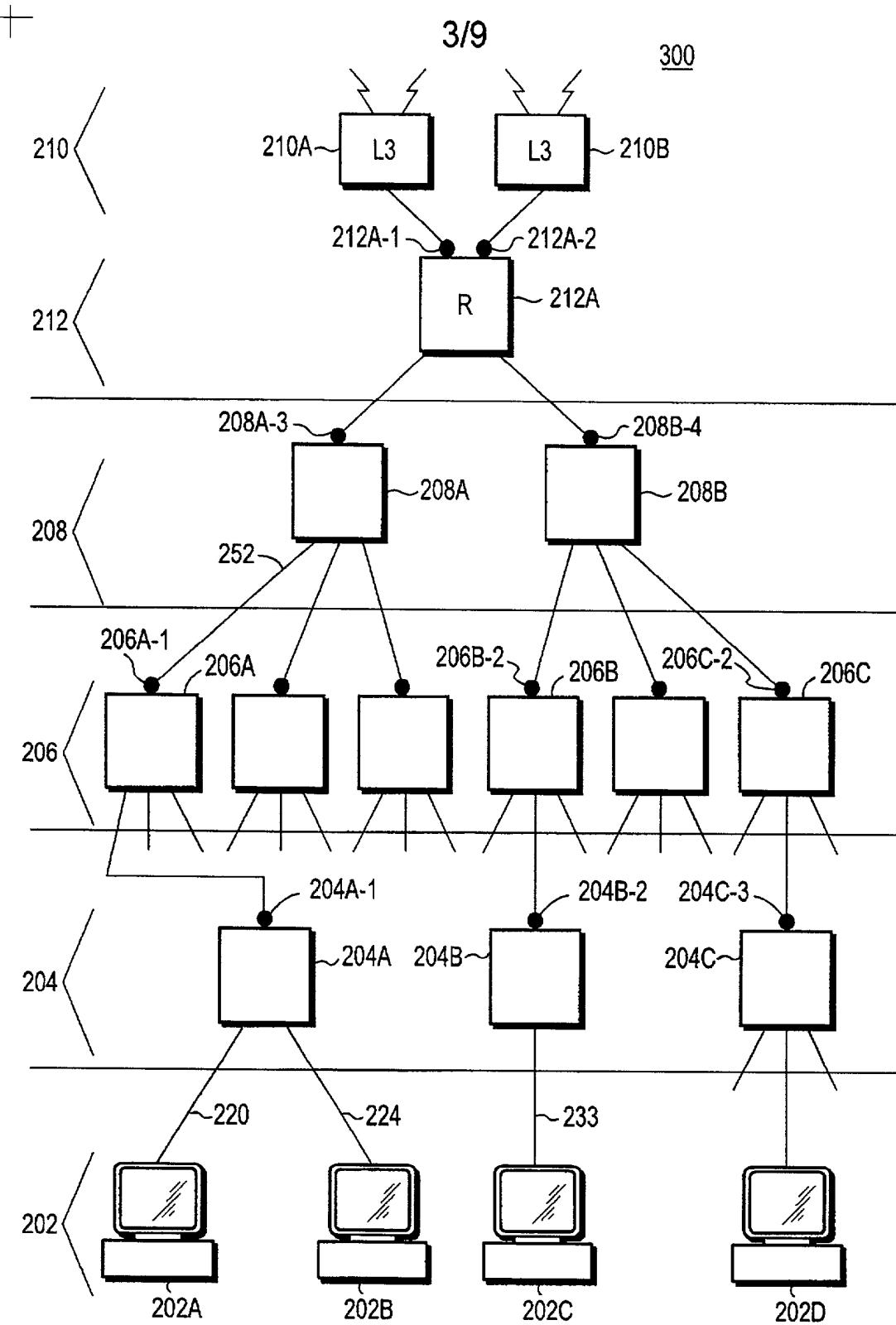


FIG. 2



STP LOGICAL TREE

FIG. 3

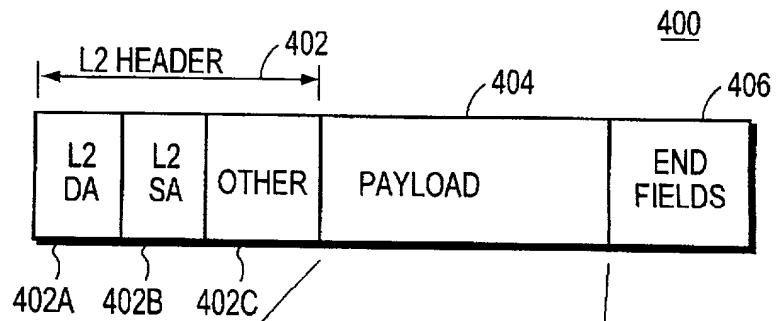
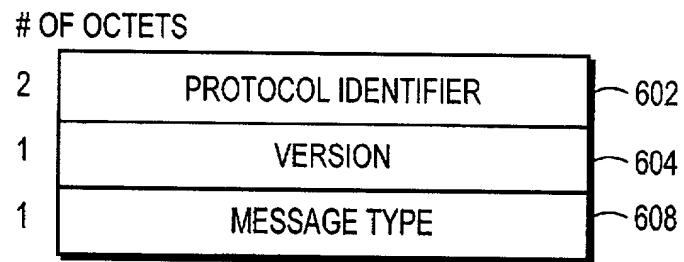


FIG. 4

| # OF OCTETS | 500                  |
|-------------|----------------------|
| 2           | PROTOCOL IDENTIFIER  |
| 1           | VERSION              |
| 1           | MESSAGE TYPE         |
| 1           | TCA RESERVED TC      |
| 8           | ROOT ID              |
| 4           | COST OF PATH TO ROOT |
| 8           | SWITCH ID            |
| 2           | PORT ID              |
| 2           | MESSAGE AGE          |
| 2           | MAX AGE              |
| 2           | HELLO TIME           |
| 2           | FORWARD DELAY        |

FIG. 5

CONFIGURATION MESSAGE

600

TOPOLOGY CHANGE NOTIFICATION MESSAGE

FIG. 6

700

|      | STATE | ROLE            |     |
|------|-------|-----------------|-----|
| 710A | FWD   | ROOT PORT       | 710 |
| 712A | FWD   | DESIGNATED PORT | 712 |
| 714A | BLK   | BLOCKED PORT    | 714 |

PORt STATE TABLE  
PRIOR ART

FIG. 7

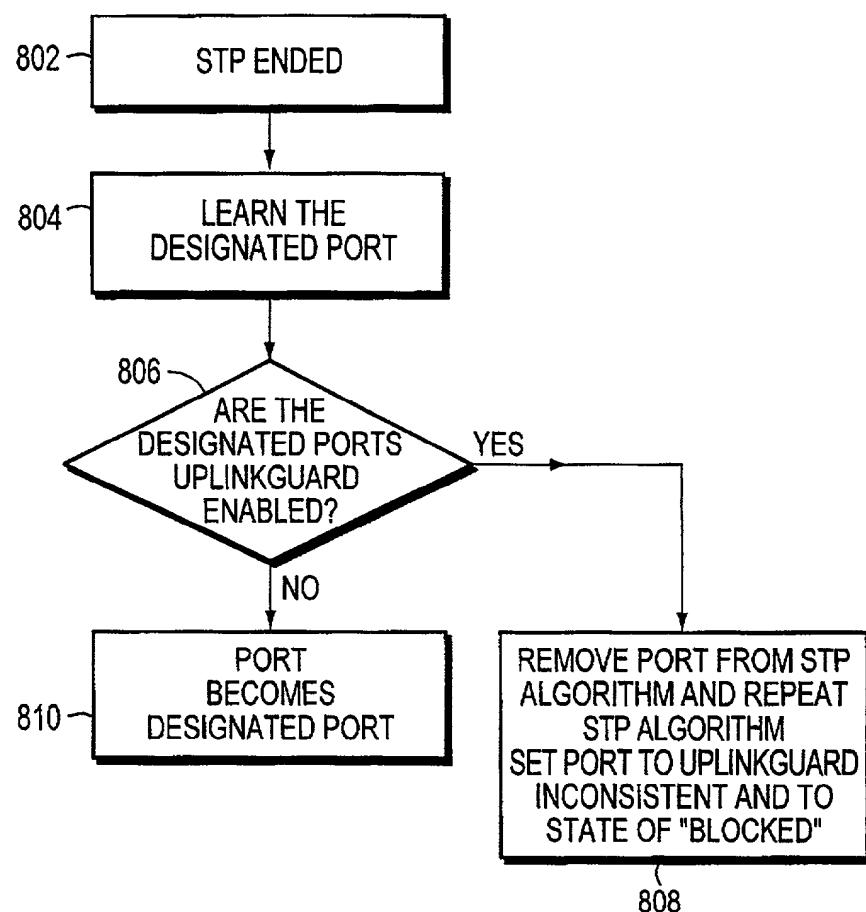


FIG. 8

9,000

|     | 910                                  | 912  | 913                    |
|-----|--------------------------------------|--|------------------------|
|     | STATE                                | ROLE   | UPLINKGUARD<br>ENABLED |
| 914 | FWD                                  | ROOT PORT                                    | DON'T CARE             |
| 916 | FWD                                  | DESIGNATED PORT                              | NO                     |
| 918 | BLK                                  | BLOCKED PORT                                 | DON'T CARE             |
| 920 | BLK                                  | UPLINK GUARD ENABLED<br>BACKUP FOR ROOT PORT | DON'T CARE             |
| 922 | UPLINKGUARD<br>INCONSISTENT<br>= BLK | DESIGNATED                                   | YES                    |

PORT STATE TABLE

FIG. 9

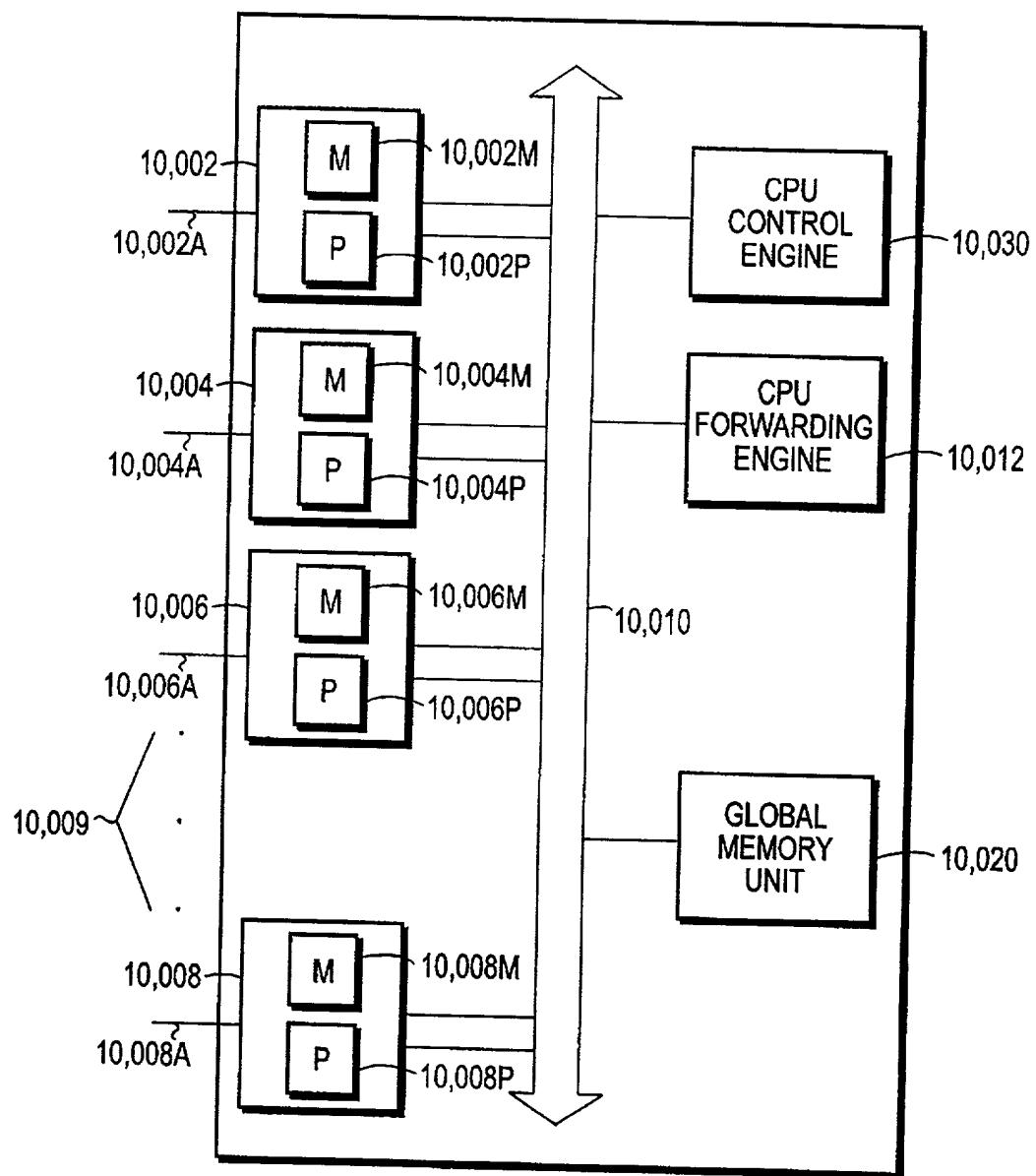
10,000

FIG. 10